



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

065
Flow and Bubble Control
UV CURABLE SCREEN PRINTING INK

North America:
NOR-COTE INTERNATIONAL, INC.
506 Lafayette Avenue
Crawfordsville, Indiana 47933 USA
Phone: 765-362-9180 (day phone)
MSDS Issuer: EHS Department
Emergency Phone (United States):
800-424-9300
CHEMTREC

Europe:
NOR-COTE INTERNATIONAL LTD.
Unit 8 Warrior Park
Eagle Close
Chandlers Ford Industrial Estate
Eastleigh, Hampshire
SO53 4NF England
Tel: +44 (0) 23 80270542 (day phone)
Emergency Phone (Outside U.S.):
703-527-3887 CHEMTREC

Asia:
NOR-COTE INTERNATIONAL PTE. LTD.
Blk 4012 Ang Mo Kio Ave 10
#05-08 Techplace 1,
Singapore 569628
Tel: +65 6291-0898 (day phone)
Emergency Phone (Outside U.S.):
703-527-3887 CHEMTREC

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product is an antifoam liquid agent with mild acrylic odor that has NO KNOWN HAZARDS.

ROUTES OF ENTRY: Dermal, Inhalation, Ingestion

GENERAL HEALTH EFFECTS:

ACUTE:

- **Skin Contact:** Not expected to be a primary skin irritant based on data from components or similar materials.
- **Eye Contact:** Not expected to cause eye irritation, based on data from components or similar materials.
- **Inhalation:** Exposure to high concentration of vapor or mist may be irritating to the respiratory tract. Not considered a hazard when used in normal conditions.
- **Ingestion:** No evidence of harmful effects.

CHRONIC: No data available to indicate product or components present at greater than 1% are chronic health hazards.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not anticipated to aggravate medical conditions, however individuals with pre-existing health disorders should consult their physician before using this product.

HMIS ® RATING: Health - 1 Flammability - 1 Physical Hazard - 0 PPE - B

SECTION 3 COMPOSITION

INGREDIENT	PERCENT BY WEIGHT	CAS#	EC#	Symbol	Risk Phrase
Silicone Compound Mixture*	Proprietary	Proprietary	Proprietary	Not available	Not available

*This material has no known hazards under applicable laws.

SECTION 4 FIRST AID MEASURES

SKIN CONTACT: Flush skin with running lukewarm water. Wash affected areas using mild soap.

EYE CONTACT: Flush the eye and under lids with warm water for minimum of 15 minutes. Remove any contact lenses during the flushing. Get immediate medical attention if irritation persists.

INHALATION: Move subject to fresh air and keep warm. If subject is not breathing, administer artificial respiration and get immediate medical attention.

INGESTION: Medical attention is not anticipated, but if appreciable quantities are swallowed, get medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FLASHPOINT: >392°F (>200°C)

METHOD: Penske-Martens Closed Cup

FLAMMABLE/EXPLOSIVE LIMITS (Volume % in air): Not established

AUTO-IGNITION TEMPERATURE: Not established



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EXPLOSION DATA: Material does not have explosive properties.

FIRE POTENTIAL: This product will ignite if exposed to an ignition source while at a temperature at or above its flash point.

EXTINGUISHING MEDIA: Use chemical foam, dry chemical, or carbon dioxide (CO₂) to extinguish flames. Water may be used to cool and protect fire-exposed containers.

FIRE FIGHTING MEASURES: Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self-contained breathing apparatus. Toxic fumes, gases, or vapors may evolve on burning such as silicon dioxide, carbon oxides and traces of incompletely burned carbon compounds. Over exposure to the products of combustion may result in respiratory irritation. Fight fires from upwind and cool intact containers with water spray or stream at maximum range.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Soak up spills with absorbent, non-combustible material and place it in labeled, closed containers for disposal as solid in accordance with Section 13. Wear recommended personal protective equipment from Section 8. For large spills, dike the area to prevent runoff from contacting public drains, sewers, or streams.

SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid any unnecessary contact with skin, eyes and clothing. Use protective clothing specified in Section 8.

STORAGE: Ensure that containers are properly secured prior to moving and closed during storage. Store at temperatures above 40° F (9.4° C). Protect containers from physical damage.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Not established

ENGINEERING CONTROLS/VENTILATION: Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposure. Dilution ventilation is acceptable.

HAND PROTECTION: Use impervious gloves to minimize contact. Wash all affected areas prior to eating and at completion of handling. Replace immediately if punctured or torn or when a change of appearance (color, elasticity, shape) occurs.

EYE PROTECTION: Use safety glasses that are ANSI approved to prevent eye contact at a minimum. Eyewash availability is also recommended.

SKIN PROTECTION: Protective or disposable outer clothing is recommended.

RESPIRATORY PROTECTION: Use of NIOSH approved respirators is recommended where exposure is exceeded. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Respiratory protection programs must comply with 29 CFR 1910.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Translucent, viscous with mild odor
BOILING POINT (°F): Not available
SPECIFIC GRAVITY (@ 15.6°C): 1.005 g/ml
VAPOR PRESSURE: <1 mmHg at 20°C
SOLUBILITY IN WATER: Insoluble
ODOR THRESHOLD: Unknown

PHYSICAL STATE: Liquid
FREEZING POINT: Not applicable
VISCOSITY (at 25°C): 500 Centistokes
VOC (EPA METHOD 24): 0%
pH: NA
POUR POINT TEMPERATURE: 14°F (-10°C)

SECTION 10 REACTIVITY / STABILITY HAZARD DATA

STABILITY: This material is stable when used under normal conditions.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA: The following is based on data from components or similar materials.



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DERMAL LD50: >2000 mg/kg (Rabbit)

ORAL LC50: >5000 mg/kg (Rats)

REPRODUCTIVE TOXICITY: No data available

TERATOGENICITY: No data available

MUTAGENICITY: No data available

CARCINOGENICITY: No data available

SECTION 12 ECOLOGICAL INFORMATION

No data available to determine the Environmental Toxicity or Fate. No determination has been made on ecological impact. However, it is recommended to prevent contamination of the environment with this product, i.e. soil, landfills, drains, sewers, surface waters, etc.

SECTION 13 DISPOSAL CONSIDERATIONS

This product, if discarded is not considered a hazardous waste under Federal Hazardous Waste Regulation 21 CFR 261 nor should not be considered a European hazardous waste. Dispose of this product in accordance with all applicable local laws and regulations.

SECTION 14 TRANSPORTATION INFORMATION

This product, as supplied, is not regulated nor classified as a hazardous material/dangerous good by United States Department of Transportation (DOT) and ICAO/IATA. Transport this product in accordance with all applicable laws and regulations.

SECTION 15 REGULATORY INFORMATION

This Material Safety Data Sheet has been formatted to the best of our ability in accordance with American National Standards Institute (ANSI), European Communities (EC), and contains hazard criteria and all information required by the Canadian Controlled Products Regulation (CPR) in regard to this product.

INTERNATIONAL REGULATIONS

Australia Inventory Status: All components of this product are currently listed in the Australian Inventory of Chemical Substances (AICS).

Canada Inventory Status: All components of this product are currently listed on the Canadian Domestic Substance List (DSL). All components are in compliance with the Canadian Environmental protection Act. This is not a controlled product under WHMIS Hazard Class.

China Inventory Status: All components of this product are currently listed on the Inventory of Existing Chemical Substances in China.

Europe Inventory Status: All components of this product are in compliance with the EC Seventh amendment Directive 92/32/EEC.

Japan Inventory Status: All components of this product are listed in the MITI inventories as found in compliance with the Chemical Substances Control Law of Japan.

Korea Inventory Status: All components of this product are in compliance in Korea.

Philippines Inventory Status: All components of this product are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland Inventory Status: All components of this product are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

U.S. FEDERAL REGULATIONS

California Proposition 65 Right To Know (RTK): This product is not regulated under the Safe Water and Toxic Enforcement Act of 1986 that requires listing of any chemicals that may cause cancer and/or birth defects or other reproductive harm.

Coalition of Northeastern Governors (CONEG): This product meets the requirements of CONEG pertaining to heavy metals total content of no more than 100 PPM. No heavy metals are added as a part of the formulation, but raw materials may contain residual parts per million as naturally occurring elements.

Comprehensive, Environmental Response, Compensation and Liability Act (CERCLA) of 1980: This product is not regulated for notification of the release of hazardous quantities greater than the reportable quantities under 40 CFR 302.4.



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Food and Drug Administration (FDA) Food Packaging Status: This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive.

Occupational Safety and Health Act (OSHA): This product does not contain components that are classified as hazardous according to 29 CFR 1910.1200.

Resource Conservation and Recovery Act (RCRA): This product is not regulated as a hazardous substance under 40 CFR 261.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III:

Section 302 – Extremely Hazardous Substances (EHS): This product is not regulated as an EHS.

Section 304 - CERCLA: This product is not regulated for emergency release notification.

Section 313 – Toxic Chemical List (TCL): This product is not regulated under the Toxic Chemical Release Reporting requirements under 40 CFR 372.

Toxic Substances Control Act (TSCA)

Section 8(b) – Inventory Status: All chemicals in this product are TSCA listed.

SECTION 16 OTHER INFORMATION

HMIS® ratings are a registered trade and service mark of the National Paint and Coatings Association with the following scale:

* = Chronic health effect	PPE Index
4 = Severe Hazard	A = Safety Glasses
3 = Serious Hazard	B = Safety Glasses and Gloves
2 = Moderate Hazard	C = Safety Glasses, Gloves and Protective Apron
1 = Slight Hazard	D = Face Shield, Gloves and Protective Apron
0 = Minimal Hazard	E = Safety Glasses, Gloves and Respirator

Definitions

TWA – Time Weighted Average

TLV – Threshold Limit Value

STEL – Short Term Exposure Limit

CAS# - Chemical Abstract Service Number

NTP – National Toxicology Program

PEL – Permissible Exposure Limit

IARC - International Agency for Research on Cancer

ANSI – American National Standards Institute

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Disclaimer: To the best of our knowledge, the product information contained herein is based upon data believed to be reliable, however Nor-Cote makes no warranty and disclaims any liability whatsoever for its accuracy or completeness. Since the actual use of the product is beyond our control, no guarantee expressed or implied, is made by Nor-Cote as to the effects of such uses nor does Nor-Cote assume liability arising out of the use of this product by others. It remains the responsibility of the user to ensure that the use of the product herein is in accordance with all applicable laws and regulations.